

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	5429	segregation same resistance	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:12
L3	868	pipe adj jacking	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:12
L4	1	L2 and L3	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:12
L5	16463	drilling adj machine	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:14
L6	1	L2 and L5	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:14

L7	56659	segregation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:14
L8	12	L5 and L7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:14
L9	3684	hexadecyltrimethylammonium octadecyltrimethylammonium tallow \$1trimethylammonium hexadecylethyltrimethylammonium octadecylethyltrimethylammonium hexadecylpropyldimethylammonium hexadecylpyridinium hexadecylimidazolium hexadecyldimethylbenzylammonium	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:37
L10	519664	salicylic toluenesulfonic sulfosalicylic benzoic sulfobenzoic sulphthalic sulfoisophthalic phenolsulfonic sulfonic cumenesulfonic methylsalicylic styrenesulfonic chlorobenzoic (sodium adj bromide) (potassium adj bromide) (hydrogen adj bromide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:37
L11	58658	dimethylaminoethyl\$4acrylate dimethylaminopropyl\$4acrylate \$4acrylamidoethyltrimethylamine \$4acrylamidopropyltrimethylamine allylamine allyltrimethylamine allyldimethylamine diallylamine diallylmethylamine diethylenetriamine triethylenetetramine tetraethylenepentamine dipropylenetriamine tripropylenetetramine methacryloyloxyethyltrimethylammonium methacryloyloxyethyltrimethylethylammonium methacryloyloxypropyltrimethylammonium methacryloyloxypropyltrimethylethylammonium methacrylamidoethyltrimethylammonium methacrylamidoethyltrimethylethylammonium methacrylamidopropyltrimethylammonium methacrylamidopropyltrimethylethylammonium acryloyloxyethyltrimethylammonium acryloyloxyethyltrimethylethylammonium acryloyloxypropyltrimethylammonium acryloyloxypropyltrimethylethylammonium	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 12:37

		acrylamidoethyltrimethylammonium acrylamidoethylidimethylethylammonium acrylamidopropyltrimethylammonium acrylamidopropylidimethylethylammonium diallyldialkylammonium diallyldimethylammonium polyallyltrimethylammonium poly \$1diallyldimethylammonium polymethacryloxyethylidimethylethylammonium polymethacrylamidopropyltrimethylammonium (cationic adj starch) (cationic adj cellulose)(cationic adj hydroxyethylcellulose)				
L12	1	L9 and L10 and L11	DERWENT	OR	ON	2009/10/02 12:37
L13	310	L9 and L10 and L11	US-PGPUB; USPAT	OR	ON	2009/10/02 12:38
L14	311	L9 and L10 and L11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 12:39
L15	10	JP-200260790-\$.DID. OR JP-2003238997-\$.DID. OR JP-2003238222- \$.DID. OR JP-2001220196-\$.DID. OR JP-200181448-\$.DID. OR JP- 03272001-\$.DID. OR JP-06161993-\$.DID. OR JP-11189452-\$.DID. or JP-539901-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 13:00
L16	8	JP-200260790-\$.DID. OR JP-02262002-\$.DID. OR JP-2003238997-\$. DID. OR JP-2003238222-\$.DID. OR JP-2001220196-\$.DID. OR JP- 200181448-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 13:00
L17	12	L15 L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 13:00
L18	2	JP-2002060790-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 13:00

L19	14	L17 L18	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 13:00
L20	2	US-20030209695-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/02 13:11
S1	10	JP-200260790-\$.DID. OR JP-2003238997-\$.DID. OR JP-2003238222-\$.DID. OR JP-2001220196-\$.DID. OR JP-200181448-\$.DID. OR JP-03272001-\$.DID. OR JP-06161993-\$.DID. OR JP-11189452-\$.DID. or JP-539901-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:31
S2	8	JP-200260790-\$.DID. OR JP-02262002-\$.DID. OR JP-2003238997-\$.DID. OR JP-2003238222-\$.DID. OR JP-2001220196-\$.DID. OR JP-200181448-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:33
S3	2	"4502887".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:36
S4	12	S1 S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 16:39
S5	2	JP-2002060790-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:43
S6	14	S4 S5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:44
S7	2	"5470383".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:51

S8	2	"7374699".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:53
S9	8	("4426310" "5747436" "6372037").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 16:56
S10	8	"7501021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 17:04
S11	35	US-5055219-\$.D.ID. OR US-5078896-\$.D.ID. OR US-4008165-\$.D.ID. OR US-4418755-\$.D.ID. OR US-4800036-\$.D.ID. OR US-3954660-\$. D.ID. OR US-4375421-\$.D.ID. OR US-5473059-\$.D.ID. OR US-4502887- \$.D.ID. OR US-5470383-\$.D.ID. OR US-7186675-\$.D.ID. OR US- 4426310-\$.D.ID. OR US-5747436-\$.D.ID. OR US-6372037-\$.D.ID. OR JP-06161993-\$.D.ID. OR JP-11189452-\$.D.ID. OR JP-07131999-\$. D.ID. OR JP-06101991-\$.D.ID. OR JP-7166150-\$.D.ID. OR JP- 06271995-\$.D.ID. OR WO-0222770-\$.D.ID. OR WO-022277003-\$. D.ID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 17:16
S12	6	("5720807" "5674316" "6068697").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/09/30 17:22
S13	94	cation adj density	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 11:53
S14	94	cation adj density	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 14:52

S15	0	US11 and S14	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 14:52
S16	35	US-5055219-\$.DID. OR US-5078896-\$.DID. OR US-4008165-\$.DID. OR US-4418755-\$.DID. OR US-4800036-\$.DID. OR US-3954660-\$. DID. OR US-4375421-\$.DID. OR US-5473059-\$.DID. OR US-4502887- \$.DID. OR US-5470383-\$.DID. OR US-7186675-\$.DID. OR US- 4426310-\$.DID. OR US-5747436-\$.DID. OR US-6372037-\$.DID. OR JP-06161993-\$.DID. OR JP-11189452-\$.DID. OR JP-07131999-\$. DID. OR JP-06101991-\$.DID. OR JP-7166150-\$.DID. OR JP- 06271995-\$.DID. OR WO-0222770-\$.DID. OR WO-022277003-\$. DID.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 14:52
S17	0	S16 and S14	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 14:52
S21	10	JP-200260790-\$.DID. OR JP-2003238997-\$.DID. OR JP-2003238222- \$.DID. OR JP-2001220196-\$.DID. OR JP-200181448-\$.DID. OR JP- 03272001-\$.DID. OR JP-06161993-\$.DID. OR JP-11189452-\$.DID. or JP-539901-\$.DID.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05
S22	8	JP-200260790-\$.DID. OR JP-02262002-\$.DID. OR JP-2003238997-\$. DID. OR JP-2003238222-\$.DID. OR JP-2001220196-\$.DID. OR JP- 200181448-\$.DID.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05
S23	12	S21 S22	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:05
S24	2	JP-2002060790-\$.DID.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05
S25	14	S23 S24	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05

S26	8	("4426310" "5747436" "6372037").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05
S27	6	("5720807" "5674316" "6068697").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:05
S32	3684	hexadecyltrimethylammonium octadecyltrimethylammonium tallow \$1trimethylammonium hexadecylethyltrimethylammonium octadecylethyltrimethylammonium hexadecylpropyldimethylammonium hexadecylpyridinium hexadecylimidazolium hexadecyldimethylbenzylammonium	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:14
S38	489720	surfactant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/10/01 15:20
S41	519664	salicylic toluenesulfonic sulfosalicylic benzoic sulfobenzoic sulfophthalic sulfoisophthalic phenolsulfonic sulfonic cumenesulfonic methylsalicylic styrenesulfonic chlorobenzoic (sodium adj bromide) (potassium adj bromide) (hydrogen adj bromide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:21
S43	1131	S32 same S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:23
S48	3216	516/66,58,67,73,76,102,104,108,99.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:25

S50	132298	"252".clas.	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:25
S58	58658	dimethylaminoethyl\$4acrylate dimethylaminopropyl\$4acrylate \$4acrylamidoethyl dimethylamine \$4acrylamidopropyl dimethylamine allylamine allylmethylamine allyldimethylamine diallylamine diallylmethylamine diethylenetriamine triethylenetetramine tetraethylenepentamine dipropylenetriamine tripropylenetetramine methacryloyloxyethyltrimethylammonium methacryloyloxyethyl dimethylethylammonium methacryloyloxypropyltrimethylammonium methacryloyloxypropyl dimethylethylammonium methacrylamidoethyltrimethylammonium methacrylamidoethyl dimethylethylammonium methacrylamidopropyltrimethylammonium methacrylamidopropyl dimethylethylammonium acryloyloxyethyltrimethylammonium acryloyloxyethyl dimethylethylammonium acryloyloxypropyltrimethylammonium acryloyloxypropyl dimethylethylammonium acrylamidoethyltrimethylammonium acrylamidoethyl dimethylethylammonium acrylamidopropyltrimethylammonium acrylamidopropyl dimethylethylammonium diallyldialkylammonium diallyldimethylammonium polyallyltrimethylammonium poly \$1diallyldimethylammonium polymethacryloyloxyethyl dimethylethylammonium polymethacrylamidopropyltrimethylammonium (cationic adj starch) (cationic adj cellulose)(cationic adj hydroxyethylcellulose)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2009/10/01 15:47
S59	311	S32 and S41 and S58	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:49



S60	256	S32 and S43 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:49
S61	0	S60 and (S23 S16 S26 S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:50
S62	12289	polycation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 15:59
S64	23	S43 and S41 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:01
S65	0	S62 and (S23 S16 S26 S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:03
S66	2965282	polymer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:30

S67	25	S66 and (S23 S16 S26 S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:30
S68	3	"3997453".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:36
S69	57	("2746928"   "2877186"   "2978416"   "3044962"   "3122502"   "3303136"   "3325404"   "3579456"   "3600385"   "3630895"   "3644204"   "3660286"   "3681241"   "3697423"   "3700607"   "3703480"   "3809646"   "3813349"   "3817871").PN. OR ("3997453").UPPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 16:37
S70	1	S69 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:38
S71	9	("4784693"   "4892589"   "5140099"   "5279313").PN. OR ("5470383").UPPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 16:44
S72	1	S58 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 16:50
S73	44345	S58 and S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:06

S74	128945	dispersant	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:07
S75	8089	S73 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:07
S76	5382	S38 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:07
S77	42	S76 and S32 and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:08
S78	868	pipe adj jacking	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:22
S79	1	S59 and S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 17:23

S80	430692	slurry	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:43
S81	868	pipe adj jacking	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:43
S82	66	S80 and S81	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:43
S83	7	S80 and S81	DERWENT	OR	ON	2009/10/02 10:44
S85	204	segregation adj resistance	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:56
S86	0	seL3 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:56
S87	1	S82 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:56

S88	1	S81 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:57
S89	56659	segregation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:57
S90	1	S89 and S81	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 10:57
S93	8	S85 and Pipe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/02 11:01

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